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FROM THE DIRECTOR'S OFFICE

Michael Anastasio

What DOE's decisions mean for the Laboratory

After much anticipation, the Department of Energy this week announced that the University of California would continue to manage Los Alamos National Laboratory through the remainder of its existing contract. However, DOE also announced that it would seek competitive bids to manage the Lab following the completion of UC's existing contract, in late 2005.

The fact that DOE chose to retain UC through its current contract is good news. It is a testament to the hard work of Los Alamos, the University of California and Lawrence Livermore over the past few months.

It is important to note that, in announcing the decision, Ambassador Linton Brooks, acting administrator of NNSA, said he believes the University still brings substantial value to the mission of both Los Alamos as well as Lawrence Livermore. The academic prestige that comes from association with a world-class university is of clear benefit in both recruiting and retention, Brooks said, and the scientific cooperation with component campuses directly advances the scientific mission of each laboratory. Finally, Brooks cited the University's ability to foster a culture of scientific skepticism and peer review that both NNSA and the Department of Energy believe is indispensable to the mission of the weapons labs.

Thus DOE does not view the announcement this week to compete the contract process as a repudiation of the University, but simply a recognition that Los Alamos' performance in business management did not rise to the exceptionally high standards required to override the presumption that competition of the contract could alleviate some of LANL's problems.

It is important to remember both DOE and NNSA are urging the University to compete for the LANL contract

See **DIRECTOR'S OFFICE**, page 8

Lab certified for OPCW work



S&TR

Chemist Hugh Gregg uses solid-phase extraction cartridges to clean a sample of simple hydrocarbon compounds that might mask a chemical warfare agent.

By **Stephen Wampler**

NEWSLINE STAFF WRITER

And now there are two.

The Laboratory has received word that it has become the second U.S. facility certified to analyze samples collected during challenge inspections conducted under the Chemical Weapons Convention.

Notification came in a letter from the Organiza-

tion for the Prohibition of Chemical Weapons, or OPCW, which is located in The Hague, Netherlands.

The OPCW is responsible for implementing the Chemical Weapons Convention, which has been ratified by more than 135 nations, including the United States.

Under this treaty, the development, production,

See **OPCW**, page 8

Pollution prevention efforts earn EPA awards

By **Anne M. Stark**

NEWSLINE STAFF WRITER

The Environmental Protection Agency Region 9 has awarded the Lab and NNSA two "Champions of Green Government" awards for two pollution prevention projects.

The Drain-Down Recovery Team and Photovoltaic (PV) Team were funded through the OAK Pollution Prevention Return-on-Investment Program in support of the Secretary's Pollution Prevention and Energy Efficiency Leadership goals.

The Drain-Down Recovery Team developed a new waste minimization and cost savings approach to the traditional drain and refill practice with chemically treated chill and hot water systems. Water is now drained out of the system and stored. After routine maintenance is completed, the water is pumped back into the system.

This has resulted in several benefits, including: reduction overall in consumption, recovered water treatment chemicals, eliminating discharges of chemi-

See **GREEN**, page 8

Abraham decides to compete LANL contract

Energy Secretary Spencer Abraham announced Wednesday that the Department of Energy intends to compete the management and operations contract for its Los Alamos National Laboratory, currently held by the University of California, when the current contract expires in 2005.

On April 26, Deputy Energy Secretary Kyle McSlarrow and Acting National Nuclear Security Administrator Linton Brooks delivered a report on the future

relationship between Los Alamos National Laboratory and the University of California with a number of recommendations. Abraham approved those recommendations in an April 29 memorandum to the deputy secretary and the acting administrator, which follows: Abraham said he agreed with the conclusions of the report on the future relationship between the Uni-

See **UC CONTRACT**, page 4



Fulfilling a dream

— Page 5



**The right stuff to
work injury-free**
—Page 7





LAB COMMUNITY NEWS

Weekly Calendar

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Saturday
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The Women's Success Connection and Weekenders Fashion are co-sponsoring an early Mothers Day festival, crafts fair and fashion show from 11 a.m. to 2 p.m. at Club Sport in Pleasanton to **benefit breast cancer organizations**. The event is open to the public and benefits Strides for Awareness and the Y-Me Breast Cancer Organization. Tickets are \$5 in advance and \$10 at the door and can be purchased by calling the Club Sport activities desk at 463-2822, ext. 570.

Tuesday
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Four **Suspect/ Counterfeit Parts Awareness training sessions** are scheduled at the Laboratory. The two-hour sessions will be held at 7:30 a.m., 10 a.m., 1 p.m. and 3 p.m. in Trailer 2627, room 1020 (classroom). The training covers the latest information on suspect and counterfeit parts, equipment, components, and material found at both LLNL and other DOE Sites. There is no cost for attendance. To enroll, contact your training coordinator. Contact: Cindy Silveira or Sue Pierce, 2-5158.

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A representative from **Fidelity Investments** will be on-site to meet with employees today and Wednesday and May 20-21. Fidelity Investments are available to UC's 403(b) participants in addition to the UC-managed investment funds. To make an appointment, call Fidelity at 1-800-642-7131. When calling, be sure to specify you are an LLNL employee.

Wednesday
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All postdocs are invited to a **postdoc coffee break** from 3-4 p.m. in Bldg. 415, room 218. Coffee, tea, and cookies will be provided as well as stimulating conversation with your fellow postdocs from LLNL and Sandia. Check out the postdoc bulletin board <http://step.llnl.gov/postdoc/> for more information. Sponsored by the Post-Doc Social Group.

Thursday
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Jennifer Ann Cook will discuss **"The Evolution of Technology and Telecommunications for the Deaf,"** at noon in the Bldg. 543 auditorium. An educator, actress and storyteller, Cook is currently a representative for MCI's Outreach/ Education and Marketing division. Her presentation will explore the history of devices and cover such new technologies as video relay services and two-way pagers.

Friday
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Today is the deadline to purchase tickets for **LLESA's Family Day and Picnic at Marine World** Saturday, May 17. Tickets are \$26.50 per person and include unlimited access to rides, shows, and animal attractions as well as an all-you-can-eat lunch. Park hours are 10 a.m.-7 p.m. The picnic takes place in the Lakeside picnic area between 11 a.m. until 12:30 p.m.

RETIREES' CORNER

By Alan Mode

RETIREE

K. Wayne DeWitt (Safeguards & Security, 2001) and **Sue DeWitt** (Biology & BioTech Research, 2001) moved from the area shortly after their retirement. They have just finished building their dream "beach house" on Amelia Island in Florida — a three-story home, right across from a beautiful beach, with ocean views from the second and third floors. They are enjoying their new water toys, a 21' open hull, center console boat that they use for fishing and cruising around the island and a 16' catamaran they use on the surrounding beach.



The DeWitts love retirement and travel quite a bit. They enjoy visiting Caribbean islands and are planning a trip to Costa Rica with California friends. When they return, they will travel to California to attend the wedding of their son on May 31 in Livermore. Later in the year, they hope to charter a sailboat for a week in the Caribbean. (E-mail: Wayne: captwayne@aol.com, and Sue: suedew513@aol.com).

Janice Keller (NIF, 2001), **Barb Ehlert-Doggett** (Energy-2000), **Carol Counts** (Directors Office, 1993), **Shirley McDavid** (Engineering, 2001), **Jane Olson** (Engineering, 1993), and **Dolores Doyle-Kruger** (Education Program, 1998), went on an outing to Filoli Gardens outside Woodside on the Peninsula. Filoli consists of a Georgian mansion built in 1917 and beautiful gardens with many "rooms" of flowers, shrubs and trees.

Pat Ellis (G Division, 1991) and **Jane Ellis** (Engineering, 1993) went to Bangkok, Thailand, despite the war and the virus. They were accompanied by **Shirley McDavid**. Nothing could keep them away from their son, Erich Fleshman's wedding. This was Pat and Jane's second trip to Thailand having gone there about six years ago. At that time, they saw a lot of the attractions, but this trip they spent more time visiting the homes of different Thai family members. The wedding and reception, attended by more than 500 people, were very traditional Thai, and a wonderful experience. The people were so very friendly and made them feel so welcome. Their son, Erich, works for Webster

University and is also a member of the Star Jam Basketball Team; he also has been in several television shows and movie films in Thailand. There wasn't much time for site seeing, but they did manage to do some. They took an all day trip to the Ruins and came back via boat, managed to do some shopping and ate some great Thai food. They also went to the Railay Beach in Krabi, Thailand and highly recommend it to anyone. The water was so warm and blue and the beach had nothing but white sand. They thought they had seen beautiful beaches in Hawaii and Mexico, but this was by far the best.

Speaking of travel, come to the Retirees Association **travel slide show** on Tuesday, May 27 at 2 p.m. in the Livermore Library. The show will be: "Newfoundland: Bridge to the New World" by **David and Barbara Edwards**. It sounds like a most interesting presentation.

The **May Retiree Luncheon** will be held at the Cattleman's restaurant at noon on Wednesday, May 21. The speaker will be David Seaborg, son of Glenn Seaborg, and the title of his presentation is: "The Current Status of Evolutionary Biology." He will discuss our current state of knowledge and modern controversies in evolution. Please join us for this interesting and informative talk. You may sign up for the luncheon on-line at the Retirees' web site: www.llnretirees.org/home.html.

In June, the ever-popular **Retiree Picnic** will be held at Ravenswood, noon on Wednesday, June 18. You will be receiving a notice in the mail and a form to send in your reservation and money. This is a popular event and space is limited. Please send in your reservation form early, mark your calendar, and plan to join us for a pleasant luncheon under the trees at Ravenswood.

Gus and Jane are on vacation until May 8, but would like any input you can provide for the next or any Retirees' Corner. If you know fellow retirees who live out of the area and would like to receive *Newsline*, you or they can phone the Lab Mail Services area, (ask for Barry) at (925) 423-0195. Input for this column can be sent to Gus or Jane Olson: Email: AugustO@aol.com, or JaneRubert@aol.com, Phone: (925) 443-4349, snail mail address: 493 Joyce Street, Livermore, CA 94550.

IN MEMORIAM

Jack Shearer

Retired Lab physicist Jack N. Shearer, 76, died April 26. A celebration of his life will be held on Saturday from 12-12:30 p.m. at the Wente Winery Tasting Room, 5050 Arroyo Road.

Shearer was born in Pennsylvania and earned his Ph.D. at Penn State University. He served in the U.S. Army and Navy.

A Livermore resident for 46 years, Shearer worked at the Lab for 34 years, retiring in 1991. During his career, which began in 1957, he was in charge of containment, headed the Public Affairs Office for a year and worked in the Director's Office as a trouble shooter.

He was a member of the Livermore Theological Society as well as the American Association for the Advancement of Science.

Shearer is survived by his wife of 52 years, Olga Shearer; daughter Karen Voorhees of Sea Ranch; sons Richard Shearer of Moraga and David Shearer of Patterson; sister Mary Wolf of Pennsylvania; and five grandchildren.

The family requests no flowers.

Did you know?
Dial 123 to check your voicemail on-site.

NEWSLINE

Newsline is published weekly by the Internal Communications Department, Public Affairs Office, Lawrence Livermore National Laboratory (LLNL), for Laboratory employees and retirees.

Contacts:

Media & Communications manager: Lynda Seaver, 3-3103
Newsline editor: Don Johnston, 3-4902

Contributing writers: Elizabeth Campos Rajs, 4-5806; Bob Hirschfeld, 2-2379; David Schwoegler, 2-6900; Anne M. Stark, 2-9799; Stephen Wampler, 3-3107; Gordon Yano, 3-3117. For an extended list of Lab beats and contacts, see <http://www.llnl.gov/llnl/06news/NewsMedia/contact.html>
Designer: Julie Korhummel, 2-9709

Public Affairs Office: L-797 (Trailer 6527), LLNL, P.O. Box 808, Livermore, CA 94551-0808
Telephone: (925) 422-4599; Fax: (925) 422-9291
e-mail: newsline@llnl.gov or newsonline@llnl.gov
Web site: <http://www.llnl.gov/PAO/>

AROUND THE LAB



Asian Pacific heritage celebrated

This year’s celebration of Asian Pacific American Heritage Month, which features six events during May, begins Wednesday with a diversity talent show at 11:30 a.m. in Sandia National Laboratory’s Bldg. 904 auditorium. LLNL employees are invited to attend.



Mike Honda

The celebration continues on Thursday when Stanton K. Enomoto, geologist and acting executive director for the State of Hawaii’s Kaho’olawe Island Reserve Commission (KIRC), will present “Kaho’olawe: Defense Clean-up and Restoration of a Hawaiian Island” at 11:30 a.m. in the Bldg. 123 auditorium.

Enomoto will describe the unique history of the island of Kaho’olawe, highlighting its importance as a significant cultural symbol, the U.S. military’s 50-year use of the island as a weapons training range, the 10-year cleanup of the island, and the return of the island to the people of Hawaii.

Enomoto serves as one of the lead state representatives with the U.S. Navy on matters relating to the ordnance clearance and environmental restoration of Kaho’olawe Island.

Other activities include a wonton-making workshop May 13 and festivals at LLNL May 15 and Sandia May 28. More information will be provided in upcoming editions of *Newsline* and *NewsOnLine*.

The month’s activities will conclude with a keynote address at LLNL by U.S. Rep. Mike Honda at noon, May 29, in the Bldg. 543 auditorium. Please note that previously published events and dates have changed.

Honda represents the 15th congressional district, which includes Silicon Valley. A native of California, Honda spent his childhood in an internment camp in Colorado during World War II. He was first elected in 1981 to the San Jose Unified School Board.

Since then, he has been elected to the Santa Clara County supervisors, the California Assembly and in 2000, was elected to the U.S. House of Representatives.

For more information about LLNL events, contact Ricky Chau, 3-4388 or Punita Sinha, 2-0354; for Sandia events, call Grace Petines, 294-2904.



Stanton K. Enomoto

Tour guides sought for Laboratory’s expanded tour destinations

Do you know someone interested in part-time or occasional work? Do they enjoy public speaking and meeting new people? If so, they might be an ideal tour guide candidate.

Public Affairs has revamped the tour program and is hosting tours of the Lab to the general public, school children and community organizations. The two-hour tour features general stops at NARAC, BBRP, CAMS, ASCI, NIF and the newly remodeled Discovery Center.

Tour guides are hired through Johnson Controls and paid on a per-hour basis.

“This is a great part-time opportunity for college students, stay-at-home moms or dads, retirees and others who might want occasional work at an exciting place,” said Christine Mixan, tour coordinator. “We are very excited about the success of the tour program and the public is enjoying it as well.”

Tour guides will be trained extensively as part of the hiring process. On-going program updates and skill acquisition will also be offered.

To apply for this position, contact Gina Cadena at 960-0369, extension 367, or email your resume to cadena2@llnl.gov. You can also drop off your resume at the Johnson Controls office in Trailer 4180.

Hats off to Cinco de Mayo



More than 200 employees turned out Thursday for a Cinco de Mayo celebration sponsored by the Amigos Unidos Hispanic Networking Group near the pool picnic area. Amigos Unidos awarded \$3,000 in scholarships to high school students. All money raised from the sale of tamales and lunches benefits the group’s scholarship fund. Festive entertainment featured traditional Mexican dances performed by Las Olmecas Baile Folklorico, pictured above and at right.



JACQUELINE MCBRIDE/NEWSLINE



UC CONTRACT

Continued from page 1

versity of California and the Los Alamos National Laboratory and approved its recommendations.

“In particular, I agree that the vigorous action the University is taking to correct the problems uncovered at Los Alamos, the significant value the University brings in the area of science, and the significant disruption to the mission of the Laboratory and the morale of the employees from early termination all make retaining the University through the end of the current contract in September 2005 the most appropriate course,” Abraham said.

“At the same time, the University bears responsibility for the systemic management failures that came to light in 2002. Given that responsibility and the widespread nature of the problems uncovered at Los Alamos, I intend to open the management of Los Alamos to full competition when the current contract expires,” he said. “The University of California will, of course, be eligible to take part in that competition and I strongly agree that it should be urged to do so. I categorically reject the notion that competition is a repudiation of an incumbent contractor or that an incumbent contractor is inherently incapable of prevailing in a competition.”

In a statement to Livermore employees Wednesday, Director Michael Anastasio noted that DOE had announced two important decisions — first that UC will continue to manage Los Alamos National Laboratory through September 2005, and second, that the management of the LANL contract will be open to competition after that time frame.

“As noted in the language used by Linton Brooks

and Spencer Abraham, their review did not explicitly cover Livermore and they did not feel the need to make even a preliminary decision on our contract. This is a testament to the good job we are doing here at Livermore,” Anastasio said. “So while today’s announcement does not affect us directly, I know that many of you still have questions. As noted in the DOE letter, UC has been strongly encouraged to compete for the LANL contract. There are many factors that will go into the final decision of contractor selection, and as Linton Brooks noted, there is great value in the University’s role in the management of both laboratories, as well as benefits in scientific cooperation and peer review.”

“Given that, the best course of action is to continue to do our jobs — and to do them well. Your hard work and dedication over these past few months has made a difference, ensuring excellence in business and administrative practices and continual improvement,” he added. “Thank you for helping us achieve this success. Also, a special thanks to all who worked in support of LANL and the UC team.”

On Thursday, the U.S. House of Representatives’ Committee on Energy and Commerce’s Subcommittee on Oversight and Investigations held a hearing regarding the University of California’s management of Los Alamos National Laboratory. The hearing focused on the Secretary’s of Energy’s decision to continue the University of California’s management of Los Alamos through the end of the current contract and then to open the contract up to competition.

President Richard Atkinson, Senior Vice President Bruce Darling, UC Vice President for Financial Management Anne Broome, and UC Auditor Patrick Reed testified. Atkinson told the committee that the University of California takes full

responsibility for the business and management problems at Los Alamos and that the University remains committed to strengthening financial controls and to restoring the American public’s confidence in Los Alamos. Atkinson also touted the tremendous scientific and technological contributions of the labs.

During his testimony, Atkinson also addressed the issue of competition, saying that while it was his instinct to compete, this is a decision that the UC Board of Regents would have to address in the coming months. Atkinson expressed to the committee his desire that the University would be judged on its 60-year record of accomplishment and not the its ability to put “together a \$25 million proposal.”

Below are Web addresses for the complete statement from the energy secretary as well as various memos and information on Wednesday’s decision.

- Atkinson’s testimony Thursday is available online at <http://www.universityofcalifornia.edu/news/losalamos/0503hearing.html>

- Statement from Ambassador Linton Brooks, NNSA: http://www-r.llnl.gov/pao/043003uc_stories/043003_brooks_statement.html

- Statement from UC President Richard C. Atkinson: http://www-r.llnl.gov/pao/043003uc_stories/043003_press_statement.html

- Press release from Energy Secretary Spencer Abraham: DOE to Compete LANL Management, Operations Contract Upon Completion of Current University of California Contract in 2005 (includes links to Abraham’s Memo to McSlarrow-Brooks and McSlarrow-Brooks’ Report to the Energy Secretary): http://www-r.llnl.gov/pao/043003uc_stories/043003_abraham_statement.html).

Technical Meeting Calendar

Friday
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PHYSICS & ADVANCED TECHNOLOGIES

“The Importance of Resonant Interactions to Galaxy Evolution,” by Martin D. Weinberg,

University of Massachusetts. Noon, Bldg. 319, room 205 (badge required). Refreshments will be served. Contacts: Michael Gregg, 3-8946, or Sandra Maldonado, 3-0621.

CHEMISTRY & MATERIALS SCIENCE

“Dynamic Experiments for Stockpile Stewardship,” by Keith S. Bradley. 3:30 p.m., Bldg. 132 auditorium (cleared area). Contact: Tom Felter, 2-8012, or Rebecca Browning, 2-5500.

Tuesday
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CENTER FOR NONDESTRUCTIVE CHARACTERIZATION

“Sonic Infrared Imaging and its Applications,” by Xiaoyan Han.

2 p.m., Bldg. 235, Gold Room. Contact: Ann Tyler, tyler8@llnl.gov.

Thursday
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DIRECTOR’S OFFICE

“Producing Ultra-High-Pressure Liquid-Metallic Hydrogen for A Pycnonuclear Fusion Reactor by Laser Compression,” by Set-

suo Ichimaru, University of Tokyo. 2 p.m., Bldg. 219, room 163 (uncleared area). Contacts: Lowell Wood, 2-7286, or Gloria Purpura, 2-7281.

ICF

“EXAFS Measurements of Shocked Metals,” by Barukh Yaakobi. 11a.m., Bldg. 219, room 163. Contact: Louann Arredondo, 2-6710, or Bruce Remington, 3-2712.

Friday
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INSTITUTE FOR SCIENTIFIC COMPUTING RESEARCH

“Understanding and Improving Whole-Program Locality,” by Chen Ding, University of Rochester. 10

a.m., Bldg. 451, room 1025 (uncleared area). Contacts: Bronis de Supinski (CASC) 2-1062, or Leslie Bills, 3-8927.

PHYSICS & ADVANCED TECHNOLOGIES

“Impact Delivery of Pre-Biotic Organic Matter to Planetary Surfaces,” by Christopher D. Fassnacht, UC Davis. Noon, Bldg. 319, room 205 (badge required). Refreshments will be served. Contacts: Michael Gregg, 3-8946, or Sandra Maldonado, 3-0621.

CHEMISTRY & MATERIALS SCIENCE

“Dynamics of Materials: A B Division Perspective,” by Kimberly S. Budil. 3:30 p.m., Bldg. 132 auditorium. (classified talk). Contact: Tom Felter, 2-8012, or Rebecca Browning, 2-5500.

INSTITUTE FOR SCIENTIFIC COMPUTING RESEARCH

“Seminar Series in Quantum Computation and Information: Part III-Quantum Computation,” by Sandu Popescu, University of Bristol. 1 p.m., Bldg. 219, room 163 (uncleared area). Contact: Patrice Turchi, 2-9925, or Linda Bodtke, 3-0421.

Monday
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PHYSICS & ADVANCED TECHNOLOGIES

“Centrality and Pseudorapidity Dependence of High-p_T Charged Hadron Production in Au+Au Collisions at sqrt(s_{NN})=130 GeV,” by Yu Chen, UCLA.

1:30 p.m., Bldg. 211, room 227 (badge required). Contacts: Ron Soltz, 3-2647, or Pat Smith, 2-0920.

CHEMISTRY & MATERIALS SCIENCE

“The Rivalry of Three Dislocations and the Tricky

Vacancy in NiAl,” by Yong-Qian Sun, Univ. of Illinois. 10:00 a.m., Bldg. 235, Gold Room. Contacts: Mukul Kumar, 2-0600 or Rebecca Browning, 2-5500.

Thursday
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INSTITUTE FOR SCIENTIFIC COMPUTING RESEARCH

“Seminar Series In Quantum Computation And Information. Part IV-Quantum Computation

II,” by Sandu Popescu, University of Bristol. 1 p.m., Bldg. 319, room 205 (uncleared area). Contacts: Patrice Turchi, 2-9925, or Linda Bodtke, 3-0421.

Friday
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PHYSICS & ADVANCED TECHNOLOGIES/IGPP

“Gamma Ray Bursts: The Brightest Explosions in the Universe,” by Shrinivas R. Kulkarni, Califor-

nia Institute of Technology. Noon, Bldg. 319, room 205 (uncleared area). Refreshments will be served. Contacts: Michael Gregg, 3-8946, or Sandra Maldonado, 3-0621.

CHEMISTRY & MATERIALS SCIENCE/ MATERIALS SCIENCE & TECHNOLOGY

“Pushing the Limit: Experiments in Materials at Extreme Conditions,” by John Molitoris. 2 p.m., Bldg. 235, Gold Room. Foreign Nationals may attend if appropriate security plan is on file which includes Bldg. 235. Contact: Christian Mailhot, 2-5873, or Kathy Gonzales, 3-7023.

The deadline for the next Technical Meeting Calendar is noon, Wednesday.

Send your input to tmc-submit@llnl.gov.

NEWS OF NOTE



Lab outreach program fulfills dream of full-time job

By Anne M. Stark
NEWSLINE STAFF WRITER

Although Howard Ellis is legally blind, he doesn't let that stop him from commuting 1-1/2 hours to the Laboratory on public transportation five days a week, getting his job as a custodian done and always having a smile on his face.

"I'm really happy," said Ellis, 49. "This is the kind of job that I've been dreaming about. I wanted a full-time job. I have hope and aspirations just like anyone else."

Diagnosed with glaucoma in 1986 while living in Mississippi, Ellis, who has worked as a custodian for Plant Engineering for nearly a year, hasn't let his disability get in the way of achieving his goals.

In a plan to incorporate more diversity into the workforce, the Lab's Human Resources Department in collaboration with Steve Hunt, associate director for Laboratory Services, formed a team last year to network and recruit employees through various outreach activities including networking with a job developers consortium consisting of about 45 agencies. One of the agencies was Lions Center for the Blind, said Chris Nishida, the employment representative for Plant Engineering.

"I had worked with Lions and Ellis was referred to us for custodial work," Nishida said. "During the interviewing process, he surfaced from among all the other applicants as most qualified."

Though Plant Engineering hadn't worked with a blind employee before Ellis, they were happy to help find ways to accommodate him.

"He's determined. There's nothing that stops him," said PJ Lyra, his current superintendent. "He's a unique individual."

They enlarged the print on training manuals and magnified the font on a computer so that Ellis could receive the proper training before starting his rounds in Trailers 3724, 3725, 3726, 3775 and 3751. Donna Chandler, Ellis' lead custodian when he started last May, even walked around his work



JACQUELINE MCBRIDE/NEWSLINE

Howard Ellis doesn't let his legally blind status stand in the way of performing his custodial duties.

areas with him for two weeks to get him familiarized with the buildings' layouts.

"My first thought was 'This is going to be one heck of a challenge,'" Chandler said. "There were a lot of questions in my mind. But once I met Howard, he's the nicest, most outgoing, hard working person I've ever met. He's always happy and has the best attitude."

She said she didn't mind going through every procedure with Ellis and watching to make sure he was able to complete all his duties of emptying the trash and recycling, vacuuming and dusting offices.

"It was a pleasure to help him like that because of the type of person he is," Chandler said. "He doesn't let his disability interfere with him at all."

To begin his workday at 8 a.m., Ellis gets to his first bus stop — that sits about a block from his East Oakland home — at 6 a. m. From there, he buses to the San Leandro BART (Bay Area Rapid Transit District) station. He takes BART to the Dublin/Pleasanton station, where he proceeds to take another bus to the Lab that drops him off at the Discovery Center. Once outside the fence, Ellis calls a Lab taxi to take him to his work area.

"He's got quite a sense of humor and he's very outgoing," said Richard Burbine, Ellis' former supervisor. "He's very people oriented and he's got a great memory. You see a person that has that many challenges and he makes this great effort and has a positive attitude. He sets a good example for everyone else."

As of late, Ellis has been a little preoccupied with news coming out of Iraq. As a father of four grown children, Ellis is concerned about two of his sons — his youngest son is in the U.S. Marines and the oldest is in the U.S. Army. Both are stationed in Kuwait.

"I try not to worry," he said. "When you have children there, there's a lot on the line. I support my kids and their decisions. I just pray and hope they get home safely."

Before arriving at the Lab, Ellis worked in shipping and receiving at Tech Data of Union City before the company moved to Southern California. Once he got the Laboratory job, he realized there were some challenges.

"People were a little leery when I started," he said. "But I would just be myself. I let my personality be who I am. I am the one who has to live with this impairment and it shouldn't have to change your personality. It doesn't change the things that I want to do in life."

It's easy to see why the folks in Plant Engineering call Ellis a people person. Upon first meeting him, he is polite, cordial and even opens the door for you.

Analysis reveals uncertainties in human effects on climate change

By Anne M. Stark
NEWSLINE STAFF WRITER

Using a new analysis of satellite temperature measurements, Lab researchers have discovered that uncertainties in satellite data somewhat hamper the detection of human effects on climate.

Since 1979, Microwave Sounding Units (MSUs) have been flown on 12 different polar-orbiting weather satellites operated by the U.S. National Oceanic and Atmospheric Administration. MSU instruments measure the microwave emissions of oxygen molecules, which are related to atmospheric temperature. By monitoring microwave emissions at different frequencies, it has been possible to 'back out' information on temperature changes in various layers of the atmosphere.

Until recently, only one group — from the University of Alabama at Huntsville — had analyzed the raw MSU data. This analysis is complicated by such factors as the gradual decay and drift of satellite orbits (which affect the time of day at which MSU instruments measure atmospheric temperatures) and by problems related to the calibration of MSUs.

The pioneering Huntsville analysis of the MSU data suggested that the troposphere (the lowest layer of the atmosphere) had undergone little or no overall warming since 1979. Some have used this finding to question both the reality of human-induced global warming and the reliability of computer climate models, which predict that the troposphere should have warmed in response to increases in greenhouse gases.

The Huntsville results are also at odds with thermometer measurements indicating pronounced warming of the Earth's surface during the satellite era.

Now a second group has conducted an independent analysis of the same raw MSU data used by the University of Alabama scientists. This group, led by Carl Mears, Matthias Schabel and Frank Wentz of Remote Sensing Systems in Santa Rosa, uses different methods to correct for satellite orbital drift and MSU calibration problems. They find that the troposphere probably warmed by roughly 0.1 degrees Celsius (0.18 degrees Fahrenheit) per decade from 1979 to 2001. This amounts to a total rise in tropospheric temperature of 0.4 degrees Fahrenheit over this period.

The implications of these uncertainties for attempts to detect human effects on climate are being explored by Livermore scientists Benjamin Santer, Karl Taylor, James Boyle and Charles Doutriaux, along with researchers from Remote Sensing Systems, the National Center for Atmospheric Research, Lawrence Berkeley National Laboratory and the University of Birmingham in England. Their findings are reported in the May 1 online edition of *Science Express* in a paper titled, "Influence of Satellite Data Uncertainties on the Detection of Externally-Forced Climate Change."

The Lab scientists and their colleagues used results from a state-of-the-art computer climate model that was run with estimates of historical changes in greenhouse gases, sulfate aerosols, ozone, volcanic dust and the sun's energy output. These experiments were per-

formed at the National Center for Atmospheric Research in Boulder, Colo., and the Department of Energy's National Energy Research Scientific Computing Center in Berkeley. The model runs yield detailed patterns (or 'fingerprints') of tropospheric temperature change. These fingerprints are identifiable in the Santa Rosa satellite data showing a warming troposphere, but not in the University of Alabama MSU records. Model output from these and other simulations are freely distributed to the research community (http://www.neresc.gov/projects/gcm_data).

"In the last 24 years, satellites have helped us to observe the climate of our planet more intensively and systematically than at any other time in Earth's history," said Santer, lead author of the paper. "Yet even over the satellite era, there are still large uncertainties in our estimates of how tropospheric temperatures have changed. It's important to take these uncertainties into account in evaluating the reliability of climate models. We find that model/data agreement, like beauty, depends on one's observational perspective. Our detection results point toward a real need to reduce current levels of uncertainty in satellite temperature measurements."

The positive detection of model tropospheric temperature 'fingerprints' in the Santa Rosa satellite data is consistent with earlier research that has found human-induced signals in such climate variables as surface temperature, ocean heat content, tropopause height and Northern Hemisphere sea ice cover.



AUTOMOBILES

1998 - BMW 328i 4door, Silver/Black,fully loaded,6-disk cd,wood package,ABS,alloy wheels,clean recor,95k freeway miles,25mpg. \$14,900 firm 925-785-4632

1988 - Fleetwood Bounder 31k, fully self contained, 2 air conditioners, generator, awnings all around, tires like new, just smoged \$15000.00 925-447-0558

1990 - TOYOTA CAMRY good condition, 50000 miles, AC, Cruise control, cassette. Great commute vehicle \$3300 925-600-9431

1992 - Honda Accord LX 105K, Auto,4-door,white, PW,PL,PS,AC. Well maintained w/ records. Great commuter car!! 925-934-8007

1995 - Camaro Z28. Red + black T-Top with SS hood and intake. AT, alarm, PW/PL. Excellent condition. Slick! \$7,400 OBO 510-489-9633

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1993 - Plymouth Grand Voyager SE 3.3L V6 63K miles Quad seating PW/PL/PM/Rear AC/PSeat Great Condition \$5000/OBO 925-447-2697

2001 - GMC Jimmy SLT,25K miles, color:pewter,power seats,windows, etc.,brand new tires.Call 925-784-7444

1999 - Corvette, 1999 Loaded 57K miles \$25,500.00 925-212-7231

1993 - Buick Regal,101k/miles, full power and leather. All services performed on time with Documentation, \$3200/BO. 925-449-5018

1990 - Volvo 740 Sedan,Auto,pwr windows. White/black leather interior. 204k miles. Very well maintained 2owner car. Runs and looks good. \$3300 OBO 209-538-1568

1971 - Porsche 911 Targa,Runs, Needs brake work, upholstery work. Some rust on undercarriage. 8K invested, \$4,300. OBO 925-292-0134

1988 - Honda Civic LX \$ 800.00 Call 209-983-9715

AUTOMOBILE ACCESSORIES

Diesel or Gas Tank, Like New \$200 OBO 925-437-1737

Engine stand - 1000 pound capacity, 4 casters, 360 degree rotation. Like new, used once briefly. \$30 925-443-6898

4 new P235 70R15 tires on

CLASSIFIED ADS

15X8 silver rallys \$40.00 each 2 used 15X8 and 2 15X9 silver rallys \$20.00 each 925-294-8438

1976 Pontiac T/A restoration project, running but needs work. Many extras included and all go with it. Serious inquiries only ... \$1500/BO 925-449-5018

Three (3) Corvette Hoods Call 209-983-9715

Auto Repair Manuals - 1989 Ford Car and Truck Motor/Body/Chassi/Electrical(Crown Vic), excellent condition, \$25 for all. 925-833-6076

BICYCLES

HARDROCK-AX Mountain Bike, 21 speed, only a few miles around town, \$220. 925-443-2140

YAKIMA RACK - attaches to older cars with rain gutters (like Toyota Corollas); wind deflector; bicycle and ski adapters. \$60 925-371-0585

Mongoose Hilltoper mountain bike \$100. 925-706-2088

KLEIN Mountain Bike. Full Suspension. Carbon fiber main frame. XT/XTR components. Pro taper handle bars. Great condition. \$600. 925-321-3693

BOATS

ForSale, Necky Kayak IV-S New \$2635, Asking \$1,650 including \$200 paddle, &accessories yellow/white. 925-829-1110

Inflatable boat, AVON 3.1, with dodger \$500 925-447-5194

ELECTRONIC EQUIPMENT

iMac 350MHz with slot-loading CD drive - needs work; includes Quicken, Adobe PageMill, iMovie2, WorldBook, keyboard & mouse. All for \$50. 925-454-8827

(2) 100 watt stereo 3-way speakers VGC for home/office. \$60.00 209-833-1719

Linksys Wireless-G Broadband Router (model WRT54G - 802.11g) New \$110 209-544-9337

Linksys cable/DSL 4 port router, wired, new, in box (could not get it to work with my system) \$40.00 925-706-2088

GIVEAWAY

Snow Chains (Cables) - fit Toyota Corolla; storage box says they fit 145-13 to P165/65R13. 925-371-0585

Lawn mower, Toro 2 cycle, rear bag, 1985, hard to start, otherwise good condition. Bought a new one. Free to a good home. 925-828-7362

HOUSEHOLD

Vacuum- Windtunnel Bagless by Hoover Model U5750-900

Excel. condition \$100.00 925-606-9847

LaZboy Blue Sofa w/ dual recliners & double chair w/ recliner \$750 OBO, glass top metal coffee table \$25, large mirror with metal frame \$50. 925-447-3197

Cerwin Vega! Speakers - Perfect condition! VS Series; 18in L x18in W x33.5in H; black. Too loud for our house! \$225 OBO 925-371-0585

Three piece set includes one coffee table and two end tables, glass tops with metal frames and legs, \$100. 925-443-5044

Full-sized convertable guest bed/loveseat Futon. Wood frame and new forest green cover. Good shape. \$70.00. 925-456-5621

Queen sized Mediterranean bedroom set. Triple dresser, mirror, two night stands, chest, headboard. Good condition. \$450 BO 925-449-1128

Refrigerator, side by side, with ice maker \$150. 925-706-2088

TODDLER BED-solid wood, natural finish, w/Simmons Maxipedic mattress. Excellent quality. \$90. 925-454-0877

Entertainment Center, wood with glass doors, excellent condition for \$50 925-373-0322

Childs twin bed with white shelf headboard. \$85.00 209-832-8072

FAN, 52inch w/ light fixt; like new, rarely used, fan is white, blades are light oak one side or white if reversed; \$25, can bring in to work 209-832-2056

Well worn sturdy wooden desk, 34 dp, 60 w, 29.5 hi. formica top, 6 drawers, (5 side, 1 middle, one deep file drawer) \$25 925-449-1318

Starbucks Espresso Machine Profi/Estro Model (top of the line). Was over \$300 new. Excellent espresso&steamer. Bean grinder does not work. \$50 firm. 925-449-5661

Window/wall mount air conditioner. Used four summers. 8000 BTUs. No longer need. Works fine. \$95 925-513-4767

MISCELLANEOUS

Taste of the Islands--Hawaiian Carnival at Almond Avenue School! Sat, May 10, 10-3; games, crafts, music, food, and theme basket sale. 925-455-5273

GIANTS Season Tickets--Two seats in section 130. 209-835-3370

YU-GI-OH factory sealed Joey or Pegasus starter decks. Each has 50 cards, including 3 foil cards, rule book and game mat. \$10.00 each. 209-830-0368

Lawnmowers: 5.0 HP, 22 in Murray with 15 in rear wheel and 3.5 HP, 20 in Sears with side bag. Make offer 510-471-6303

Ruby and diamond ring on 14K

See complete classified ad listings at <https://www-ais.llnl.gov/newsline/ads/>

gold. Center stone ruby is of high quality surrounded by brilliant diamonds. Please call for photos. \$450.00/OBO 209-612-8052

25in Console TV FISHER Good Condition \$130. HOME GYM with Weight-Set \$85. Call Eves: 925-828-6568

Roll top desk with chair, excellent condition \$500. 925-706-2088

Oriental rugs(2). 100% Virgin Wool. Hand knotted. Pakistan. Slate/blue-grey and black w/ brick accent. MintCond! 4x6(\$75) and 3x5(\$40) or \$100/both. 925-449-5661

WIGS New in boxes, One Blond, One Brown NOT worn Current Styles Wrong Color Available at Half Reg. Price, OBO 925-513-3806

THOMAS KINKAID Signed and numbered artists proof, 3/385, COA, Very peaceful cottage and bridge. Perfect gift for Mothers Day \$425.00 925-292-0134

Band Saw, 12in Craftsman, 2 speed, 1-1/8 HP, 6in depth of cut, rip fence, instruction manual, w/legs, excell cond, \$70, 209-830-0728

MOTORCYCLES

1991 Suzuki GS500e. Full tune-up, new F&R brakes, new fork seals, new rear tire - all last spring. Runs strong in town and on the freeway. Perfect for first-timer! The bike itself has 23k on it but the motor only has 5,500. \$1500 obo. 209-835-5851

1999 - KTM 300 MXC Modified Suspension, Pro-Tapers, hand guards, Green sticker & License,excellent condition 925-634-8647

1998 - Honda Pacific Coast,Red,4500 mi. 800cc Excellent cond. Large windshield. Extra windshield & clothing avail. \$5000.00 925-606-4325

1970 - Puch Motorbike. Fully assembled, not running, all parts and manuals included. Great summer project for son or daughter. \$150. OBO 925-292-0134

1980 - Yamaha 125cc Enduro 2-cycle, all original and in excellent condition \$1,150 OBO. 209-892-2763

PETS & SUPPLIES

Dachshund minis,AKC 2 males chocolate dapples,\$500, 1 female chocolate dapple \$600 CASH only 925-779-9142

Guinea Pigs with cages free to good homes schools. 1 male and 3 females, three cages. Will consider any combination that works for you. 925-600-0297

Barrel Saddle, Tex Tan, 15 inch seat, 2 years new. Flower tooled, in great condition. \$645.00. 925-634-1604

5 yr. old Arab gelding, 14.1 h,

Great pony hunter prospect. Very calm and sweet. Wonderful on trails. \$2500/OBO. 209-482-3373

Folding Nylabone plastic pet carrier, large, up to 60 lbs, like new, \$50. 925-294-9022

Western pleasure show saddle. One of the last saddles made by Rowell. Berry pattern silver. Matching breast plate. \$2500 BO. 925-449-1128

RECREATION EQUIPMENT

ForSale, NeckyKayak IV-S Kevlar New \$2,635. Asking \$1,650 including \$200 paddle, &accessories yellow/white. 925-829-1110

Dive Gear, regulator, bcd, wet suits, fins, hoods, gloves, used twice, will certify, ab gear sling, \$700.00 firm 209-836-0631

Exercise stationary bicycle, keys cardiomax 625R, \$100.00, Exercise stepper, Tunturi 401 variable resistance climber \$100.00 925-447-4249

RIDESHARING

Express your commute, call 2-RIDE for more information or visit <http://www-r.llnl.gov/tsmp>.

ROCKRIDGE - Looking for occasional/regular rides/riders. Work start&finish hours flexible. Barter rides or exchange gas money charge. 925-784-4133, ext. 4-2546

Lafayette - LaMOrinda Vanpool (also Walnut Creek stop at Rudgear Rd), reclining seats, reading lights, 7:45-4:45, \$100/mo (pretax reduction available) 925-943-6701, ext. 2-3005

Oakland/Montclair - New vanpool forming; traditional (5/40) schedule. We will start when one more rider signs up. Contact ext. 2-9831, or 510-530-1289, ext. 2-9831

Palo Alto & surroundings - Looking for staff to car pool,from Palo area, M-F regular working hours. 650-858-0458, ext. 3-3368

SERVICES

Exterior House Painting - 18 yrs exp. Call for free estimate. 209-956-3718

Roofing, 28 years experience, fully insured 925-454-9200

TUTORING in high school and college math and chemistry. 925-443-2095

Are you looking for mechanical work? 18 years experience in auto repair. Call 209-612-0209 or 209-239-7707

Pet/House Sitter-Reasonable

Services and merchandise listed in Newsline are not guaranteed. It is up to the buyer to scrutinize services purchased.

AROUND THE LAB



Get a handle on what's ergonomically correct for you

By Dale Sprouse
IBIS

Confused by the variety of ergonomic equipment on the market? Don't know what is best for you or the employees you supervise? Wish there was a way you could try out ergonomic equipment before you (or your program) acquire it?

If you can relate to the above questions, the answer to your dilemma can be found in Bldg. 255, room 145. It is the home of the Laboratory's new Ergonomic Demo Room, which is stocked with assorted samples of ergonomic products including: chairs and stools; carts and tables; keyboard trays; input devices such as keyboards, mice, and trackballs; monitor accessories; laptop computers; and industrial products such as ergonomically designed hand and laboratory tools.

Ergonomic evaluators from throughout the Laboratory, members of the Lab's Ergonomics Committee, ES&H Team members, assurance managers, and others with an interest in ergonomics attended the facility's grand opening Tuesday. The Ergonomic Demo Room's first day of business was Wednesday.

The facility —staffed by ergonomists from the Hazards Control Department — will be available to answer questions and provide advice, and is open by appointment only. Appointments can be made by calling 2-ERGO,



JACQUELINE MCBRIDE/NEWSLINE

Lab employee Bob Foerschler receives a tutorial on the ergonomics of working at a computer station. The Lab's Ergonomic Demo Room in Bldg. 255 opened for business on Wednesday. The room is stocked with an assortment of ergonomic products including chairs, trackballs and carts.

the Lab's one-stop ergonomics hotline.

Melanie Alexandre, the Laboratory's Ergonomics Subject Matter Expert in Hazards Control, is recommending that employees have an ergonomic evaluation completed before making an Ergonomic Demo Room appointment. "It will be very helpful when they come over to bring copies of their evaluation and information on the type of computer they use."

Alexandre is hopeful that ergonomic evaluators from throughout the Lab will make a trip

to the Ergonomic Demo Room an integral part of the evaluation process. "We'd really like them to bring their customers to examine different equipment before a commitment is made to buy," she said, noting that the Ergonomic Demo Room's staff can serve as a valuable resource for ordering the right equipment.

The Ergonomic Demo Room's staff will be taking over ergonomic chair fittings that once were done by Judy Mick in the Bldg. 411 furniture facility. "Judy recently retired and we felt that the chair fitting service was a natural 'fit' for the Ergonomic Demo Room," explained Alexandre.

The focus of the Ergonomic Demo Room, Alexandre said, is much greater than just ergonomics in an office environment.

"We hope that the resources we are assembling in the

Ergonomic Demo Room are for people who work in a laboratory environment or in the crafts or material handling areas. This will help dispel the view that ergonomics is a concern only for people who work with computers," she said. "All of us need to learn to avoid injury by working properly and with the correct resources."



Rates, Experienced, Reliable. Please Call For Details. 925-960-1793

SHARED HOUSING

TRACY, - Rooms for rent, 2 available, \$400 /month, plus deposit and utilities. Cable, Internet and telephone available. 209-832-4335

Pleasanton - Huge Master Suite with walk-in closet, private bathroom, access to spa, kitchen, living room, AC, cable. \$690 plus 1/3 utils. 925-600-0297

Livermore - Sngl parent w/2 daughters has rm avail for rent. Mstr bdrm/ba with all amenities. Friendly environment. \$600/mo incl util. Female pref. 925-606-0260

Livermore - Wanted: Part-time (4days/wk) bedroom near Lab in quiet area (day sleeper). No kitchen/laundry/bath. 916-624-4395

Master bedroom & master bath, Springtown area on golf course, available June 1, \$675/mo, \$725/deposit, 1/2 utilities. 925-443-9155

Oakland Hills - House w/2

other adults. Large room, sunny,views, walk in closet. Great location. \$700 & utilities. Available now. Short term considered. Michelle. 510-531-9151

TRUCKS & TRAILERS

2001 - Chev,K1500,short bed,Z71,5.3 L.V8,LS model,fully loaded,tow package,upgraded tires and rims,32K miles,extended warranty,16K\$ 510-582-8943

1998 - Toyota Tacoma Xtracab,SR5,4cyl, 5spd,ac,cc,tilt,am/fm/cass,dual airbags,bedliner,cust wheels,bumper,tow pkg,xcl.cond-\$9950 925-846-5258

1999 - Dodge Ram 1500 SLT Ext Cab. Cruise, AC, PW, PDL, Hard Tonneau cover, Low Miles 25K, 5sp MANUAL Transmission, asking \$13,200 209-484-0701

1987 - Toyota pickup. New camper shell,bedliner,& upholstery.Excellent condition,exceptionally clean.Call for more information.\$2,900. 209-845-8753

1985 - Ford F-250, 4X4, 110k miles, runs well-just smog tested, recent brakes and clutch, asking \$2500, 925-449-0827

1997 - Toyota Tacoma, PS,AVC,PL,70k miles,Custom wheels,billet grill,roll pan,PIA lights,lowered,alarm,custom stereo,Excellent condition \$8000/OBO 925-846-6057

Chrome roll bar for full size Truck. \$275.00 OBO 925-449-5345

1979 - Dodge Fireball 23ft. Class C Motorhome. Sleeps 6. 32K on Dodge 440 Engine. Good Condition \$4000. OBO 925-292-0134

2000 - 2000 lance 9.5 foot squire lite self contained 3 way fridge shower toilet well maintained 8,600 obo 209-823-1111

Front chrome bumper, GMC/Silverado, like new, call for info. 150.00 OBO. 510-581-1863

1987 - John Deere 850 24 HP w/roll bar and new loader, rebuilt motor by JD dealer. 7100 hours. Excellent Condition \$11,000 OBO 925-449-5481

VACATION RENTALS

Cute cottage beach house. 2 bdrs, 2 baths, spa, 4 blocks to beach. Santa Cruz, harbor area. Sleeps 7. Available June 15 and after. 925-245-1114

Modern mountain house. 4 bdrm. 2 bath. Wood burning stove, TV, VCR, DVD, nice deck. Washer/dryer. Hwy. 4 Arnold area (Dorrington) 5,000 ft. 925-245-1114

SOUTH LAKE TAHOE - 3 Bedroom 2 bath Chalet, nicely furnished, All amenities, Park w/ Lake, tennis etc. Great for families! Reserve now for Summer! 209-599-4644

Maui, HI - Kahana Reef oceanfront 1BR/1BA condominium. Beautiful two-island view, oceanside pool, and BBQs. Low LLNL rates for year-round reservations. 925-449-0761

Incline Village, NV - - Tahoe Chapparral - Cozy two bedroom for rent week of May 17-26. full kitchen, max occupancy is six. Overlooks Lake Tahoe, lots of imenities. 209-239-8909

WANTED

Wanted set of tires size 14 209-531-1527

Looking for a used refrigerator and Washer/dryer. 209-832-4335

Saddle-western trail. 15 to 15 1/2. 209-892-6186

CASH FOR HOT WHEELS! If you have any Hot Wheels from the 60s 70s or 80s 925-325-1123

Early Volkswagon bug parts. Father and son bug project needs many parts to make a safe running car. 925-292-1581

Recommendation for music teacher (trumpet/french horn) for middle school student. 925-447-4830

We are looking for baby furniture. We need a crib, bassinet, changing table, stroller, high chair, etc. in good or better condition. 925-931-0383

WANTED: General Mills Box Tops for Education. Collecting for school library. Collecting year round. Thank you. 209-576-7560

GREEN

Continued from page 1

cally treated water, monitoring of discharge to POTW, and pump-out capabilities reduce labor costs and building system down time. This activity has managed to save approximately 72,600 gallons of water a year and \$60,000 per year. The project has the potential for widespread applications in government and industrial institutional settings.

The Photovoltaic (PV) Team worked to promote PV technology in commercial and residential applications. For example, outdoor solar panels were installed at the Lab Discovery Center where guests can go to better understand the value of photovoltaic power systems.

Several PV array configurations were installed, including a parking lot shading structure, a solar tracking array, a standing seam roof application (mounted at ground level) and a PV walkway light setup. The gener-



BLAIR HORST/EPDCREDIT

These solar panels outside the Lab's Discovery Center are one example of the work that the Photovoltaic Team members performed, earning them an Environmental Protection Agency Region 9 Green Government award.

ating capacity is currently around 3.5 kW, with the ability to expand up to 7.5 kW. An electronic display with real-time indications of performance for the total PV system and separately for each PV array is provided at Bldg. 652 near the center via a hands-on computer display.

An additional PV system installed at one of the parking lots onsite improves safety by illuminating the parking lot and walkway at night. This system was installed with funding provided principally from PG&E rebates collected from prior year energy effi-

ciency projects, and includes additional contributions from UTel and the Chemistry and Material Science Directorate.

The PV Parking Lot & Walkway Lighting team included: Blair Horst of Utel's Energy Management Program, Dan Klein of Plant Engineering's Lighting Shop, Jacky Angell of Utel's Energy Management Program and Barbara Pulliam of the CMS Directorate.

The Discovery Center Photovoltaic Exhibit team members included: Blair Horst, Karin King of DOE's Site Office, Katharine Gabor and Bruce Campbell of EPD's Pollution Prevention Team, Ian Watson of Plant Engineering's Space & Site Planning Office, and Karen Rodriguez and Linda Lucchetti of the Public Affairs Office.

Members of the Drain-Down Recovery System team included: Blair Horst, Katharine Gabor, Karin King, John Sarginson of Plant Engineering's Instrument Shop and Dick Quigley of the CMS Directorate.

OPCW

Continued from page 1

acquisition, stockpiling and use of chemical weapons have been outlawed, as well as the transfer of chemical-weapon-related technologies.

"As one of only two such laboratories in the nation, this achievement demonstrates the expertise of the Laboratory in this area," said Jeff Richardson, the Lab's OPCW project manager.

"In the area of nuclear proliferation, we have the Radiation Detection Center and its work. Now in the field of chemical weapons, we are one of the country's two OPCW-certified laboratories," Richardson said.

Livermore's Forensic Science Center was selected, in 2000, by the State Department to be the second U.S. facility to seek OPCW certification. The center was tapped because of the Laboratory's advanced environmental controls and physical security, as well as its well-demonstrated capabilities in detecting and analyzing small traces of unknown materials, Richardson said.

Under a condition set by the U.S. Senate, all samples taken by OPCW inspectors at U.S. chemical plants must be tested in the United States. The Edgewood

Chemical and Biological Forensic Analytical Center in Maryland is the nation's other OPCW-designated laboratory.

To achieve OPCW certification, the Lab's Forensic Science Center had to pass three grueling proficiency tests. In the latest test, held Oct. 23-Nov. 6, the center had to analyze three chemical samples — a soil sample, an organic solvent and a wastewater sample — for any of thousands of chemicals of concern, precursor compounds or decomposition products.

The Livermore researchers were given 15 days to identify the "suspected" chemical weapons compounds in the samples and report their findings, said Lab principal investigator Armando Alcaraz.

"Our researchers demonstrated extreme diligence and hard work to be successful," Richardson said. "They had a limited amount of time to identify the samples and prepare their report, so they worked very long hours every day."

In the three required tests, Lab researchers received two "A" grades and one "B." The Laboratory is certified by the OPCW for 2003-2004. To retain its certification, the Lab must maintain a rolling average of two "A" grades and one "B" in ongoing proficiency tests.

The samples for the Laboratory's proficiency test were prepared by the Chemical Analysis Laboratory in the Republic of Korea and were evaluated by the Spiez Laboratory in Switzerland.

Among the Lab researchers who participated in the OPCW tests were Hugh Gregg (a co-principal investigator), Rich Whipple, Tuijanna Mitchell Hall, Andy Vance, Bob Maxwell, John Reynolds, Greg Klunder, Fred Cone and Fowzia Zaka. The team also received important assistance from Amal Moulik of the Laboratory's library in locating literature about chemical weapons compounds.

Because of the success of Lab researchers in the proficiency tests, they have been asked to participate in a workshop to help developing nations secure OPCW accreditation, Alcaraz said.

Additionally, the Laboratory has developed working relationships through the OPCW process with the U.S. State, Commerce, Energy and Defense Departments, as well as the National Institute of Standards and Technology.

More about the OPCW certification of the Laboratory's Forensic Science Center will be carried in the May edition of *Science & Technology Review*.

DIRECTOR'S OFFICE

Continued from page 1

when it expires. Even if UC does not retain the contract, DOE and NNSA have announced their intent to protect employee pension and benefit plans as the contract process moves forward.

What will this mean for Livermore? In making their decisions this week, both NNSA and DOE did not explicitly cover Livermore, because both Abraham and Brooks believe there is no need to make even a preliminary decision on whether to extend or compete the Lawrence Livermore contract when it expires in September 2005.

There are various factors the University of California must sort out to determine whether it decides to compete for the contract. It is because of our employees that we have built a successful laboratory. As responsible stewards

of the public trust, we must maintain and build upon that success. We must strive for simultaneous excellence in science and technology, operations and business practices — one of our core values — as well as adhere to our many other values. (You may read more about these on the Web page, at <https://www-r.llnl.gov>.) If any issues arise, each employee should be able to bring any issues to his or her management, so they can be addressed quickly and effectively.

We value the important and long-standing association with the University of California and our sister laboratory, Los Alamos. And over the next few years, we will work closely with both the University and Los Alamos to extend into the future the past successes of the last 60 years.

I want to thank each of you for your continued hard work and your commitment to this Laboratory, and I will provide more information to you as it becomes available.



Newsline
UC-LLNL
PO Box 808, L-797
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